GeoQuest releases new version of GeoFrame (October 1996)

Version 2.5 of GeoQuest's GeoFrame reservoir characterization system now includes StratLog and new WellPix module.

As well as integrating StratLog into the GeoFrame environment, GeoFrame 2.5 is said to introduce new applications, including WellPix and WellSketch and feature many product enhancements to existing products. Howard Neal, vice president of product development, said the integration would streamline the interpretation workflow process. "With this release, GeoQuest now offers the most comprehensive suite of fully integrated geologic interpretation software, allowing highly efficient wellbore to regional studies." The addition of StratLog, a comprehensive geologic interpretation and display application, to GeoFrame offers complete geologic interpretation capabilities and access to petrophysical analysis through the Oracle project database, which underlies all GeoFrame applications. According to GeoQuest, this tight integration ensures that changes to one display are reflected in others, accelerating completion of time-consuming tasks associated with the interpretation process. For example, markers picked in WellPix are immediately available in StratLog.

insight

The new WellPix module adds to the geological interpretation features available in StratLog and focuses on geologic well log correlation and market interpretation. WellPix offers enhanced techniques that speed up and provide new insight to the correlation process. Simple templates for well display and user preferences support ease of use. To interpret complex areas WellPix offers a variety of features including variable area color fill, fault gapping, flattening on markers, independent scrolling and log ghost image drag, stretch and squeeze. WellSketch, another new application, is used for generating wellbore equipment diagrams featuring powerful spreadsheet entry and editing capabilities, robust equipment libraries and graphic editors. Other WellSketch fonctions include zoned displays, free annotation and the generation of hardcopy reports. WellSketch displays are available for display in other GeoFrame applications.

User friendly

GeoQuest says new GeoFrame 2.5 data preparation enhancements provide a powerful set of user-friendly tools for data editing and environmental corrections. WellEdit, a well log and core data editor module, replaces the interactive log editor (ILE) module. WellEdit features general log editing, stretch and squeeze, depth shifting, core data and core image editing, unlimited undo options, interactive data functioning and an audit trail and other features as well. The GeoFrame base tools package, which delivers the functionality needed to load, unload, manage and organize data and work sessions also has been significantly enhanced with additional data loading and unloading options. Introduced in 1993, GeoFrame is the centerpiece for GeoQuest software development. Designed to comply with standards from the Petrotechnical Open Software Corporation, GeoFrame products are organized by discipline-specific product lines, each with a variety of modules.

GeoFrame, POSC and compliance revisited (December 1997)

GeoQuest reveals its plans for making GeoFrame 'POSC compliant' and extending the data model to other E&P domains.

At last month's POSC meetings in Dallas, Schlumberger- GeoQuest's product line was in the spotlight at the first of a new "Supplier Workshop Series". The idea behind the workshop's is for a supplier member of POSC to lead a half-day workshop following each POSC Member General Meeting. Larry Denver (GeoQuest) traced the development of GeoFrame from V 1.0 in '93 to V 4.0 due to be released in 1999. By that date GeoFrame should incorporate inter-well imaging, production analysis, simulation and drilling, in other words integrating much of the domains currently covered by Oilfield Manager (OFM). Interest was expressed as to the availability of a GeoFrame developers toolkit which is currently being shipped to "key" clients. Thirty companies have already purchased the development toolkit. As for the holy grail of plug and play, as we have previously discussed here in PDM, this will only be a reality for applications developed in the GeoFrame environment. In the POSC environment, the migration to "full" Epicentre is obviously of interest. GeoQuest stated that this would occur over the next "two to four years".

history

Najib Abusalbi (GeoQuest) provided some information on the implementation of Epicentre in GeoFrame. Some 20% of the 600 plus entities in GeoFrame are extensions including many derived attributes (with stored procedures). This is partly due to "historical usage" but there are areas where the corresponding Epicentre attribute has not been used. GeoQuest has already implemented its own Business Objects (see this month's PDM lead) which provide application access to the physical data model - avoiding direct SQL table queries. Some of this work is fed back to POSC.

confusion

Current GeoFrame architecture does not use the POSC Data Access and Exchange layer and GeoQuest has essentially gone for a proprietary DAE although the PRISM LightSIP DAEF (see October PDM lead) is under evaluation. Bulk data in GeoFrame does not use the POSC defined Frames concept, but rather through the POSC DAE Bulk Data Access Library (BDAL) specifications. GeoQuest uses the notion of POSC compliance very widely in its marketing effort and came under fire for the potential "confusion" that this might cause. POSC is therefore very interested in a compliance verification process, while GeoQuest appeared reluctant to submit themselves to such a test.

PDM comment : GeoQuest like to talk about POSC compliance because they perceive a marketing advantage - and will very likely customize or open up POSC type entry points to their POSC-committed oil company clients. What is less likely is that such plug and play facilities will be offered to GeoQuest's competitors. This is understandable in the commercial world, and reflects the fact that, while the technicalities of interoperability have been investigated in great depth, the existence of a business model that might support interoperability is a rather naive assumption. In other not so far removed fields such as UNIX, or the current Netscape vs. Microsoft courtroom battle, interoperability has either proved a myth, or is centerpiece in out and out commercial warfare. Rather than coming up with some minimalist POSC compliance testing schema, it might be worthwhile to develop even a theoretical business model for how interoperability could be made to work commercially. After all, we are all in it for the money!

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IESX and Charisma now part of GeoFrame (November 1997)

The latest release of GeoQuest's software integration platform GeoFrame, version 3.0 now integrates GeoQuest's twin seismic interpretation packages IESX and Charisma.

Applications in the GeoFrame environment share a common Oracle database that is described by GeoQuest as "fully compliant" with standards from POSC. Which of POSC's labyrinthine standards GeoFrame is "compliant" with is not specified though. In addition to the two seismic interpretation packages GeoFrame now integrates visualization with GeoViz and Voxels, InDepth velocity modeling and depth conversion, CPS-3 mapping and Framework 3D for characterizing and interpreting complex structures, StratLog for geological interpretation, WellPix for correlation ElanPlus and PetroViewPlus for petrophysical analysis and other. Other tools for reservoir analysis include Impact, Zodiac and Polaris.

Data management has been enhanced with new tools for installing the software and data loading, spreadsheet style data management tools and editing and saving of ASCII data. WellEdit works with well log and core data. The migration of IESX and Charisma to GeoFrame is said to have taken "three years of dedicated development and testing", what is perhaps surprising is why GeoQuest did not take this opportunity to merge the two products. After all, you can't have two "best in class".

Shared Earth Model nears with GeoFrame 3.5 (March 1999)

Property3D and LPM now integrated with GeoFrame offering what is claimed as the "First Complete Reservoir Modeling Workflow on an Integrated Platform".

Property3D is a three-dimensional geological modeling package allowing users to create property models, perform statistical analysis and determine reservoir connectivity. Results from Property3D can be used in FloGrid for upscaling to generate reservoir property descriptions for reservoir simulation. GeoQuest's LPM software is a surface-based mapping application for mapping reservoir properties within a reservoir. Zone maps can be guided by relationships between log data and seismic attributes. Both deterministic and stochastic methods are available

Seamless

Property3D and LPM are part of GeoQuest's push for seamless interpretation to simulation workflow. This begins with seismic interpretation moves through the three-dimensional property model and ends in the fluid-flow model in FloGrid. LPM can be used to generate two-dimensional property maps based on seismic and well log information.

Leverage

These property maps can then be leveraged by Property3D or directly by FloGrid to enhance the reservoir model.

Larry Denver, vice president of Marketing for GeoQuest claims that "This reservoir characterization system lets engineers and geoscientists bridge the gap between the geological and geophysical interpretation and the reservoir simulation model."

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Elf Exploration Production Selects GeoFrame for Project Database (June 1998)

Elf Exploration Production (Elf EP), technology company of the upstream activities operated by Elf worldwide, has selected the GeoFrame reservoir characterization system as its project database repository.

The selection of GeoFrame 3.0 follows a six-month internal evaluation of GeoFrame done in technical cooperation with GeoQuest staff in Paris and Houston. "We have foreseen a need to invest in our oilfield data administration within Elf by using modern technology and industry standards," said Gilles Rappeneau, senior vice-president of Elf EP-Technology. "GeoFrame was selected by our domain experts for its compliance to POSC standards and its proven capacity to behave as a data repository for the variety of applications that Elf EP is using from numerous vendors."

GeoQuest will provide installation, training and support services for deployment of GeoFrame in Elf's environments in France and its overseas subsidiaries. Deployment will begin in June at Elf EP technology centers in Paris and Pau, France. "We are looking forward to a long-term relationship with Elf Exploration Production to build a solid technological support to efficiently manage project data worldwide," said Francis Mons, vice president of GeoQuest Africa and Mediterranean.

As revealed in PDM Vol 1 No 4, Elf have previously selected CGG-PetroSystems' Petrovision data management product as the core of their technical data management system Archidex, based in the Exploration and Production division in Pau (France). Initially, Petrovision was to be closely coupled with Integral Plus, a joint CGG, Total and Elf developed integrated suite of E&P applications. The move to GeoFrame can therefore be said to represent a significant evolution of Project Data Store technology within Elf EP.

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- Integration of Surface Imagery with Subsurface Data (342 KB PDF)
- White Paper: Rapid Regional Evaluation (370 KB PDF)

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GeoFrame

Reservoir Characterization System

The GeoFrame® integrated reservoir characterization system gives you the freedom to precisel subsurface throughout your full exploration and production (E&P) workflow.

Integrating project data management, geology, geophysics and modeling, GeoFrame 4 creates workflow for your multidisciplinary needs. With all of the tools at your fingertips--regardless of th location of your asset team--you can truly collaborate. Productivity increases as you spend less for data and more time evaluating data. The result: better decisions, faster.

- **Borehole Geology**
  GeoFrame Borehole Geology software brings you more options to process, analyze your dip data.
- **GeoFrame 4 Geology Office**
  Including GeoFrame Geology Office geological workflow collaboration tools plus Roc GeoPlot
- **GeoFrame 4 Geophysics**
  All of your seismic interpretation tools integrated on one database
- **Mapping & Modeling**
  Expert mapping tools and modeling products that bridge the gap between modeling
- **Petrophysics**
  A powerful suite of intgrated applications for project management, data preparation, and reservoir property computation
- **Visualization**
  Advanced interactive interpretation and display in three-dimensional workspace

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Borehole Geology

Rock-Solid Interpretations

For the Most Complete Geological Description of Your Reservoir Discover GeoFrame Borehole

A suite of integrated applications, GeoFrame* Borehole Geology software brings you more optic analyze and interpret your dip data. No other tools offer the power to validate your interpretation reservoir through detailed analysis of structural dip, bedding patterns, faults, fractures and form like Borehole Geology.

With the GeoFrame common project database all interpreters--geologists, geophysicists, petrop engineers--can directly access the data and results from the Borehole Geology applications and accuracy of their interpretations.

- **BorTex**
  Texture classification and zone identification from dipmeter and image logs
- **BorView**
  Interactive dip and image interpretation
- **Dip & Image Processing**
  Complete dipmeter and image processing
- **SediView**
  Structural dip determination and removal software offers an innovative new approacl and remove structural dip even in nonshale lithologies. Dip dispersion analysis can b to infer reservoir geometry and sediment transport direction.
- **Sequence**
  Stratigraphic boundary detection uses log-curve shape to automatically detect bounc offers thickness trend analysis.
- **StatPack**
  Statistical data analysis offers tools for evaluating log and dip data, such as commor normalization, principal component analysis, cluster analysis, Markov analysis and m
- **StrucView**
  Single- well structural interpretation from dip data
- **WellComposite Plus**
  Geologic marker interpretation and advanced header builder within WellComposite
- **WellEdit**
  Log Curve, Borehole Image and Core Data Editing, Depth Matching and Mathematic

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- Integration of Surface Imagery with Subsurface Data (342 KB PDF)
- White Paper: Rapid Regional Evaluation (370 KB PDF)

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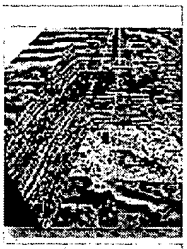
GeoFrame 4 Geophysics

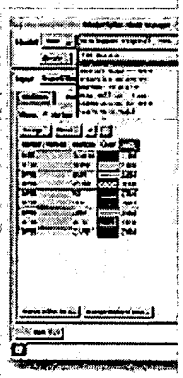
Increase throughput while maintaining control

The GeoFrame integrated reservoir characterization system includes a geophysical suite of applications that delivers the tools you need to increase the productivity and efficiency of your geophysical interpretation work processes. Whether you are working in exploration, appraisal, production, interpreting a single 2D survey or engaged in a major 4D reservoir monitoring study, GeoFrame 4 Geophysics gives you access to the most innovative suite of tools available on the market. Integrated onto one database, GeoFrame Geophysics simplifies the workflows of geoscientists.

- **Basemap Plus**
  Comprehensive shared base map with gridding and contouring
- **Charisma**
  2D/3D/4D seismic interpretation
  - WriteOn
    Works with Charisma 3D to allow you to communicate through words and pictures to enhance your interpretation
- **Framework 3D**
  Semiautomated age-based structural framework construction
- **GeoViz**
  3D interpretation and visualization
- **IESX**
  2D/3D/4D seismic interpretation
- **InDepth**
  Interactive velocity modeling and domain conversion
- **Log Property Mapping (LPM)**
  Generate reservoir property grids and maps using well log and seismic data
- **SeisClass**
  Multi-attribute classification software
- **Synthetics**
  Synthetic seismogram generation and wavelet extraction
- **Variance Cube**
  Volume attribute software



GeoViz displaying the chair display feature a with 3D logs and a por map of the main reser



The Interpretation Mod Manager allows you to the exact interpretation throughout the field's l and saves you time by managing your interpr lists interactively.

GeoViz displaying the reverse faulting featur

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Visualization

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  Advanced interactive interpretation and display in three-dimensional workspace
- **GeoViz Explore**
  Three dimensional viewing software

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Mapping & Modeling

Mapping

- **Basemap Plus**
  Comprehensive basemap with basic gridding and contouring within the GeoFrame e
- **Charisma Mapping**
  Mapping software within the GeoFrame Charisma environment
- **CPS-3 Mapping System**
  Algorithms for surface modeling, volumetric analysis, and mapping of data within the environment
- **Framework 3D**
  Automated structural reservoir model builder and interactive model editing for use in heavy faulting within the GeoFrame environment
- **Log Property Mapping (LPM)**
  Generate reservoir property grids and maps using well log and seismic data
- **SmartMap**
  GIS map view to visualize, browse, query and analyze all E&P data within the Finder management environment
- **SurfViz**
  Full three-dimensional viewing of the framework model used with CPS-3 and Frame the GeoFrame environment

Modeling

- **Modeling to Simulation**
  - **FloGrid**
    Interactive three-dimensional upscaling/upgridding of geologic model dat ECLIPSE or GeoFrame environment
  - **Framework 3D**
    An interactive model editing for use in areas of heavy faulting within the (environment
  - **Log Property Mapping (LPM)**
    Generate reservoir property grids and maps using well log and seismic d
  - **Property3D**
    Volume reservoir modeling within the GeoFrame environment
  - **ResSum**
    Reservoir zone properties and thickness calculations within the GeoFran environment
- **SurfViz**
  Full three-dimensional viewing of the framework model used with CPS-3 and Frame the GeoFrame environment